

Estimation of Water Quality Parameters With Data-Driven Model

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Electrical conductivity and total dissolved solids are considered important parameters in determining quality of drinking and agricultural water because they directly represent total salt concentration in the water. Increases in these parameter values indicate a reduction in water quality. In this study, estimation of the two parameters in the Lighvan Chay River located in Eastern Azerbaijan, Iran, is studied using the *k*-nearest neighbors algorithm and support vector regression. Different sets of chemical parameters (i.e., phosphorus, chlorine, calcium,

magnesium, sodium, sodium adsorption ratio, sulfate, bicarbonate) were considered as inputs while the total dissolved solids and electrical conductivity were the outputs. Three statistics—coefficient of determination (R^2), root mean square error, and mean absolute error—were used to verify accuracy of these models. Comparison of the results showed that both algorithms accurately estimated the total dissolved solids and electrical conductivity, but the support vector regression model is recommended because of better performance.

Keywords: electric conductivity; *k*-nearest neighbors algorithm; support vector regression; total dissolved solids; water quality

Assessment of surface water quality is important in the management of water resources (Dogan et al. 2009). Water quality in rivers is paramount to the well-being of nature and humans, and surface water quality is usually related to the type of surrounding industries, agriculture, and human activities. Water is withdrawn from the hydrologic cycle to meet various needs and then is returned (Banejad & Olyaei 2011). Given the essential role of rivers to agricultural, industrial, and urban needs, it is necessary to regularly monitor and evaluate water quality in rivers. As rivers pass through different regions, changes in water quality and the level of hydrochemical parameters are observed in these regions. Because of the gradual decline in water quality over time, regulatory bodies in various countries have made decisions to mitigate the damage. Ecologically acceptable water management calls for accurate modeling, forecasting, and analyzing water quality in rivers (Darda 2010). Numerous models have been developed for management of water quality, such as QUAL2E, Water Quality Analysis Simulation, and the US Army Corps of Engineers' Hydrologic Engineering Center-SQ (Chen et al. 2003). Using these models is time-consuming and expensive; therefore, development of cost-effective models is encouraged.

Because of the propensity of varied standards for water quality, different parameters are used as quality indicators. The quantity of ammonia, cadmium, chemical oxygen demand, chlorine, copper,

dissolved phosphorus, lead, nitrogen dioxide, suspended solids, total nitrogen, total phosphorus, zinc, sodium, sodium adsorption ratio, sulfate ions, bicarbonate ions, electrical conductivity (EC), total dissolved solids (TDS), and pH is frequently measured at water quality monitoring stations. EC and TDS levels in water are two of the main parameters used to determine quality of drinking and agricultural water because they directly represent the total concentration of salt in water. High EC and TDS values are not desirable in water used for irrigation because salt affects plant growth through osmosis (Phocades 2000).

Advances in data science and data mining methods such as neural networks (NNs), fuzzy inference methods, support vector machines (SVMs), and *k*-nearest neighbors (*k*-NN), have made it possible to solve complex problems in high dimensions. The general principle behind these methods lies in exploring hidden relationships in large volumes of data and building models that reflect physical processes governing the system under study. A data-derived model represents a relationship between input variables and output variables. Such a model can be highly accurate because it captures relationships of any kind that are expressed in data, including the underlying physics and chemistry.

DATA SCIENCE METHODS

The growing use of data science methods in water resources engineering is seen in recent literature. Diamantopoulou et al.

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Table of Contents Estimation Of Water Quality Model Parameters Springer

1. Understanding the eBook Estimation Of Water Quality Model Parameters Springer
 - The Rise of Digital Reading Estimation Of Water Quality Model Parameters Springer
 - Advantages of eBooks Over Traditional Books
2. Identifying Estimation Of Water Quality Model Parameters Springer
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Estimation Of Water Quality Model Parameters Springer
 - User-Friendly Interface

4. Exploring eBook Recommendations from Estimation Of Water Quality Model Parameters Springer
 - Personalized Recommendations
 - Estimation Of Water Quality Model Parameters Springer User Reviews and Ratings
 - Estimation Of Water Quality Model Parameters Springer and Bestseller Lists
5. Accessing Estimation Of Water Quality Model Parameters Springer Free and Paid eBooks
 - Estimation Of Water Quality Model Parameters Springer Public Domain eBooks
 - Estimation Of Water Quality Model Parameters Springer eBook Subscription Services
 - Estimation Of Water Quality Model Parameters Springer Budget-Friendly Options
6. Navigating Estimation Of Water Quality Model Parameters Springer eBook Formats
 - ePub, PDF, MOBI, and More
 - Estimation Of Water Quality Model Parameters Springer Compatibility with Devices
 - Estimation Of Water Quality Model Parameters Springer Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Estimation Of Water Quality Model Parameters Springer
 - Highlighting and Note-Taking Estimation Of Water Quality Model Parameters Springer
 - Interactive Elements Estimation Of Water Quality Model Parameters Springer
8. Staying Engaged with Estimation Of Water Quality Model Parameters Springer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Estimation Of Water Quality Model Parameters Springer
9. Balancing eBooks and Physical Books Estimation Of Water Quality Model Parameters Springer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Estimation Of Water Quality Model Parameters Springer
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Estimation Of Water Quality Model Parameters Springer
 - Setting Reading Goals Estimation Of Water Quality Model Parameters Springer
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Estimation Of Water Quality Model Parameters Springer
 - Fact-Checking eBook Content of Estimation Of Water Quality Model Parameters Springer
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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